Falcon

Human Recognition System

Features

High-performance, High-capacity
- Supports up to 500,000 cameras in one system
- Supports up to 10,000,000 Face / Human Detection Comparison Library
- Real-time multiple face matching, matching speed low to 2s
- Up to 98% face recognition accuracy

Deep Analysis
- Supports deep learning algorithm
- Supports human attributes analysis

Good Compatibility
- Supports different types of camera: Kedacom human recognitive camera, Kedacom standard IP camera, Third-party IP camera

Abundant Functions and Features
- Three types of snapshot: face, head and shoulder, person
- Supports recognizing and capturing the human side and back picture
- Supports searching picture by picture or attributes

Specifications

	Falcon Human Recognition System
KProServer3 CPU Server	
CPU Server Chassis	High density server chassis 19" 2U standard blade rack server chassis, able to insert 4 computing nodes, each computing node configuration 6 slot of 3.5 inch / 2.5 inch compatible hard drive slot, a total of 24 hard disk slot can be placed Include 2 unit of 2150W redundant platinum power supply
Computing Nodes	Computing Nodes for KProServer3-B01 2 x Intel Xeon Silver 4110 (8 core, 16 thread, up to 3.0GHz, 11MB Cache), 32GB RAM (KProServer3-N100-E01-32G) / 64GB RAM KProServer3-N100-E01-64G) / 128GB RAM (KProServer3-N100-E02-128G) 1 x 2.4TB SAS, 1x 960GB SSD, 2 x SFP OS license not included
Functions	Compares the attributes of each face Calculates the similarity percentage between faces
Operating Temperature	10°C ~ 40°C / 50°F ~ 104°F
Operating Humidity	50% ~ 90%
Power	100 ~ 127V AC, 50 ~ 60Hz / 200 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Max. 2150W (4 computing nodes included)
Weight	38kg / 83.78lb (including 4 x nodes)
Chassis Dimensions	733 x 438 x 86.9mm / 28.86" x 17.24" x 3.42"
DeepEngine-1000 GPU Server	
GPU Server Chassis	High density server chassis 19" 4U standard blade rack server chassis, able to insert 6 computing nodes Include 4 unit of 1200W redundant platinum power supply
Computing Nodes	Computing Nodes for DeepEngine-1000 1 x 64 bit multi-core CPU, 2 x GPU, 32GB RAM 2 x 1000M RJ45, 240GB SSD OS license not included
Functions	Identifies the faces and persons in the video streaming Grabs the attributes of each face and person
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Operating Humidity	50% ~ 90%
Power	100 ~ 127V AC, 50 ~ 60Hz / 200 ~ 240V AC, 50 ~ 60Hz
Power Consumption	Max. 3000W (6 computing nodes included)
Weight	58kg / 127.87lb (including 6 x nodes)
Chassis Dimensions	820 x 440 x 177.8mm / 32.28" x 17.32" x 7"
System	
Supported Operating System	Windows10 Professional 64-bit / Windows 10 Enterprise 64-bit Windows 7 Professional 64-bit / Windows 7 Enterprise 64-bit / Windows 7 Ultimate 64-bit
Database	Elastic Search
Application System	Falcon Human Recognition System
User Management	Admin / User
Maximum Number Of Camera / Video Stream Access	Up to 500,000
Face / Human Detection Comparison Library	Up to 10,000,000
Camera Access Type	Kedacom human recognitive camera Kedacom standard IPC (by Kedacom VMS) Third-party IPC (by Kedacom VMS and NVR) RTSP Video Stream (Optional)
Storage	Face and human pictures (By IPSAN)
Recognitive Functions	
Target Detection	Identifies the faces and persons in the video streaming
Captured Picture	Person, Face, Full view
Face Matching	Real-time / Post-event
Analysis	Analyzes attributes of human and face image, grabs the gender, age group, with or without glasses and mask, color of clothes, texture of clothes, direction, speed level
Search Mode	Date and time / Camera / Face image / Person image / Attributes (gender, age group, with or without glasses and mask, color of clothes, texture of clothes, direction, speed level)
People Counting	Bi-directional
Alarm	
Alarm Triggers	Face matching
Alarm Events	Alarm report / Snapshot / Acoustic alarm
Video	
Compression	H.265 / H.264
Live View	1080p@30fps
Network	
Network Protocols	TCP/IP, UDP, RTSP, VSIP, 802.1x, IPv4
User Interface	EPAS Client